



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
BELL B25E B93A625ET03009826
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		BE0000007	BE0000003	BE0000002
Sample Date		Client Info		03 Jun 2024	25 Aug 2023	04 Oct 2022
Machine Age	hrs	Client Info		2029	1535	1006
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>79	14	16	13
Iron	ppm	ASTM D5185m	>100	29	32	42
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	3	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	6	8
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	3	8	11
Tin	ppm	ASTM D5185m	>15	0	1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

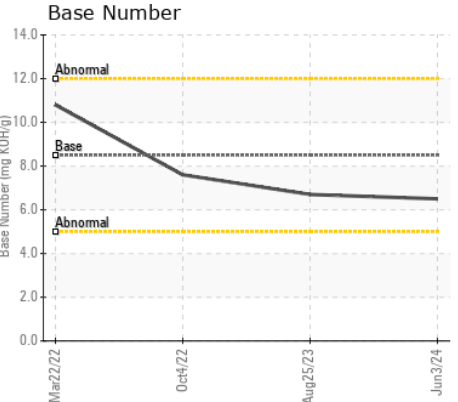
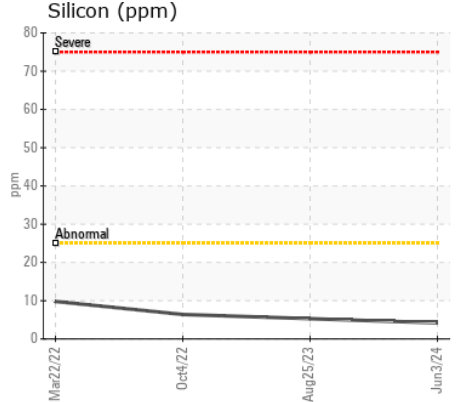
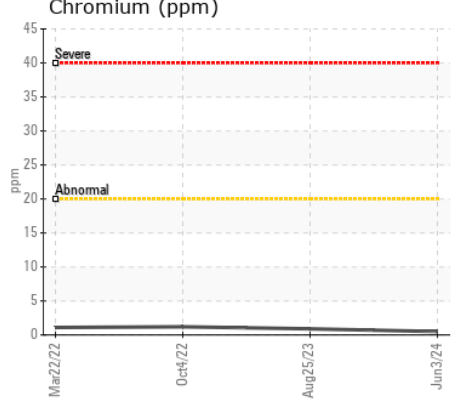
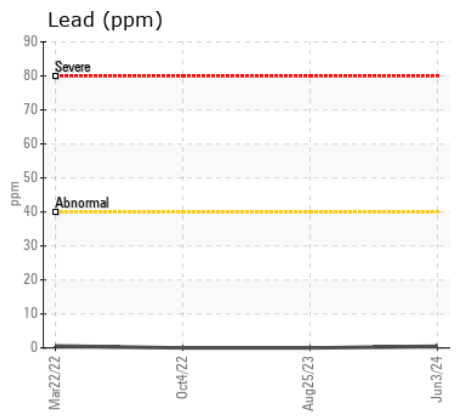
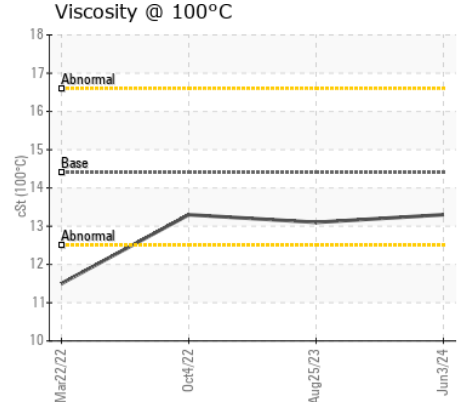
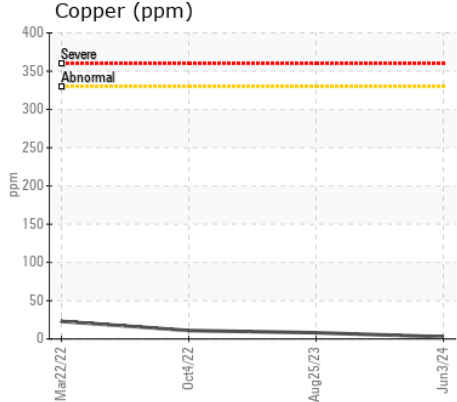
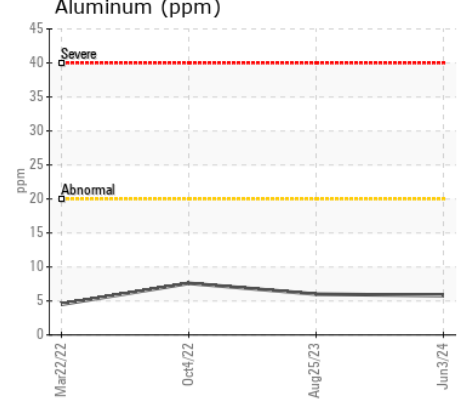
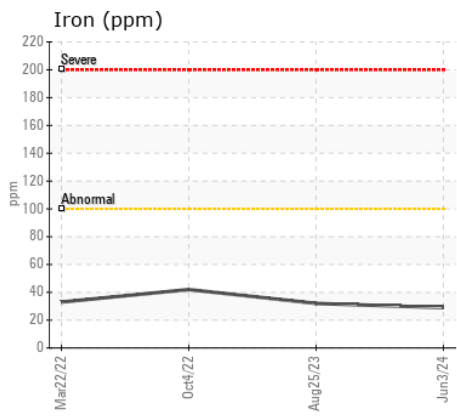
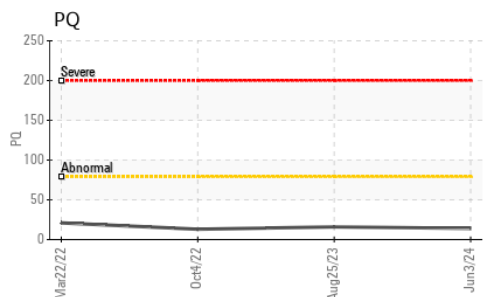
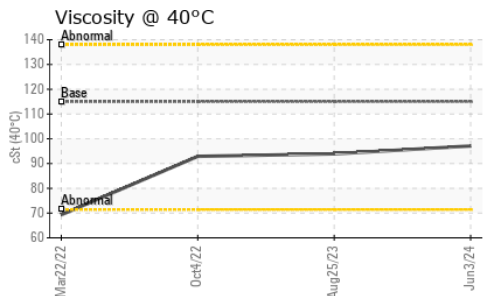
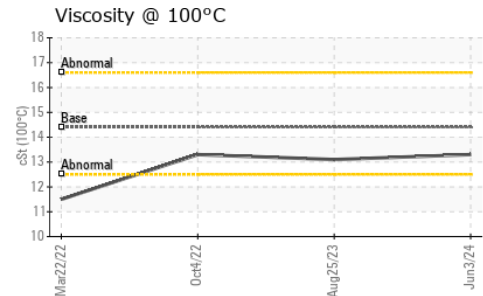
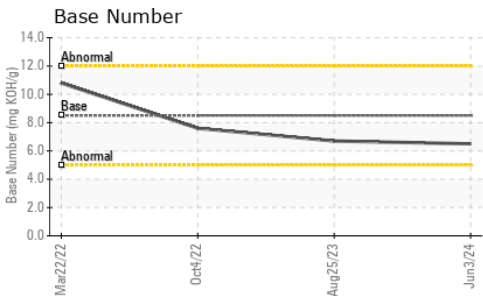
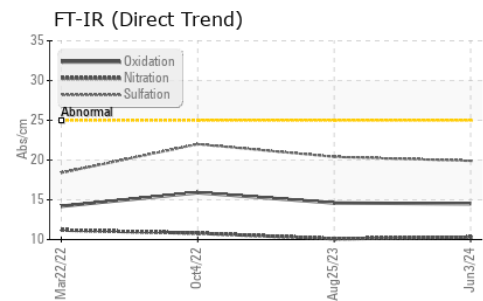
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	5	6
Potassium	ppm	ASTM D5185m	>20	2	4	9
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.8	1
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.1	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.4	22.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	3	3	2
Boron	ppm	ASTM D5185m	250	44	67	46
Barium	ppm	ASTM D5185m	10	0	2	0
Molybdenum	ppm	ASTM D5185m	100	88	66	60
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	104	161	251
Calcium	ppm	ASTM D5185m	3000	2351	2084	2010
Phosphorus	ppm	ASTM D5185m	1150	1025	942	872
Zinc	ppm	ASTM D5185m	1350	1250	1128	1068
Sulfur	ppm	ASTM D5185m	4250	4182	3934	3436
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.6	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5	6.7	7.6
Visc @ 40°C	cSt	ASTM D445	115	97.1	93.9	92.9
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.1	13.3
Viscosity Index (VI)	Scale	ASTM D2270	126	136	138	143



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BE0000007
Lab Number : 06231144
Unique Number : 11114637
Test Package : MOBCE

Received : 08 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Jonathan Hester

Newman Tractor
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 Verona, KY
 US 41092

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)